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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/764,750	01/26/2004	Hsiang-Lan Lung	MXIC-P910329	8735
7:	590 12/14/2005		EXAMINER	
Kenton R. Mullins Stout, Uxa, Buyan & Mullins, LLP			NGO, NGAN V	
4 Venture, Suit			ART UNIT PAPER NUMBER	
Irvine, CA 92	618		2818	
			DATE MAILED: 12/14/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/764,750	LUNG ET AL.				
		Examiner	Art Unit				
		Ngan Ngo	2818				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 26 Oc	ctober 2005.					
, —	This action is FINAL . 2b) This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims						
5)□ 6)⊠ 7)□	Claim(s) 1.2 and 4-14 is/are pending in the app 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1.2 and 4-14 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.					
Applicati	on Papers						
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Example.	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority u	inder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachmen	t(s)						
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
3) Inform	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		latent Application (PTO-152)				

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The amendment filed October 26, 2005 has been entered and made of record as paper no. 1005.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, 4, 6-11, 13, and 14 stand rejected under 35 U.S.C. 102(e) as being anticipated by Hush (US-6873538 B2).

Hush discloses a memory cell comprising a chalcogenide random access memory cell having thin film which is relatively constant throughout a length of the chalcogenide structure and a CMOS circuit operative to access the CRAM cell. Note lines 30-40 of column 3, lines 6-10 of column 4, and figure 2 of Hush. No patentable weight is given to "thin film process" and "iso-etching process" because they are process limitation in the product claim. A "product by process" claim is directed to the product per se, no matter how actually made, In re Hirao, 190 USPQ 15 at 17(footnote 3). See also In re Brown, 173 USPQ 685; In re Luck, 177 USPQ 523; In re Fessmann, 180 USPQ 324; In re Avery, 186 USPQ 161; In re Wertheim, 191 USPQ 90 (209 USPQ 554 does not deal with this issue); In re Marosi et al, 218 USPQ 289; and particularly In re Thorpe, 227 USPQ 964, all of which make it clear that it is the patentability of the final product per se which must be determined in a "product by

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process" claim, and not the patentability of the process, and that an old or obvious product produced by a new method is not patentable as a product, whether claimed in "product by process" claims or not. Note that applicant has the burden of proof in such cases, as the above caselaw makes clear.

In re claim 4, Hush discloses a chalcogenide structure (chalcogenide layer disposed between electrodes 150 and 152) in series with a semiconductor device (CMOS transistor 124)

In re claim 6, Hush discloses a selecting transistor operative to drive a current through the chalcogenide structure when enabled by a voltage at a gate terminal of the selecting transistor. See column 4, lines 20-45.

In re claims 7, 8, and 14, Hush discloses in figures 1 and 4 that the selecting transistor can be connected to word lines (110), drive lines, and bit lines (116).

The subject matter of claims 9-11 and 13 has been discussed above.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5 and 12 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Hush in view of Chen et al. (US 2004/0257854 A1).

Hush discloses all the subject matter discussed above; however, Hush does not teach the diodes driving current through the chalcogenide structure. Chen discloses in paragraph [0021] that a diode can be used to drive current through the chalcogenide

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structure instead of a transistor. Therefore, it would have been obvious to one of ordinary skill in the art to use a diode to drive a current through the chalcogenide structure as taught by Chen.

Applicant's arguments filed October 26, 2005 have been fully considered but they are not persuasive.

There is no agreement that the pending independent claims as amended would appear to distinguish over the prior art of record. In fact if a proposed amendment was submitted and an agreement was reached, an interview summary would have been provided and recorded. The "thin film process" and "iso-etching process" are not product limitation as indicated in the last office action. Figure 2 of Hush clearly shows the chalcogenide structure having a thin film cross sectional area which is relatively constant throughout the length of the chalcogenide structure.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication should be directed to Examiner Ngan

Ngo at telephone number (571) 272-1711. The fax phone number for the organization

where this application or proceeding is assigned is (571)-273-8300.

Information regarding the status of an application may be obtained from the

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December 8, 2005